



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.3410

Job Sheet 168233



Part No: 646.3410

Job Qty: 2 ea

Part Name: LH Wiper Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/13/17

Job Tracking No:

Due Date: 12/1/17

Created By: Linda Lacelle

Type: Stock

Description:

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
90	Start up Operation	2 Ea	11/30/17	11/30/17	0.00	0.00	Start Up Machining		Kt 17-12-31
100	Bandsaw	2 pcs	11/30/17	11/30/17	0.00	0.00	Bandsaw1		Kt 17-12-31
110	CNC Vertical Machining	2 pcs	11/30/17	11/30/17	0.00	2.69	HAAS 1		Kt 17-12-31
120	QC	2 pcs	11/30/17	11/30/17	0.00	0.00	QC2		Kt 17-12-31
130	QC	2 pcs	11/30/17	11/30/17	0.00	0.00	QC8		B.E 18-01-18
131	HandFinish	2 pcs	12/1/17	12/1/17	0.00	0.17	HandFinish4		
140	Outsource	2 pcs	12/1/17	12/1/17	0.00	0.00	Outsource4		At 18/02/07
150	Packaging	2 pcs	12/1/17	12/1/17	0.00	0.00	Packaging2		APAS/02/07
155	QC	2 pcs	12/1/17	12/1/17	0.00	0.00	QC5		38 11
180	Packaging	2 pcs	12/1/17	12/1/17	0.00	0.00	Packaging3		9-89 9-89
190	QC21-SA	2 Ea	12/1/17	12/1/17	0.00	0.00	QC21		DAS FEB 12 2018

Part Op 110 - 1-Machine per folio FB151 DWG REV: N/C FOLIO REV: AA 2- deburr and break all sharp edges

Descriptions: 120 - QC2- Inspect parts off machine FAI/FAIB

130 - QC8- Inspect parts - second check

~~131 - CLEAN AND REMOVE ALL PART MARKING~~

140 - Outsource process-Anodize per QSI017 4.1.10.1 Issue P/O to ATG 035542 1- Black Anodize as per Dwg 646.3400 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Conformity is required

150 - Receive & Inspect for Damage & Mat'l Certs

155 - QC5- Inspect part completeness to step on W/O

180 - Identify as per dwg & Stock Location: ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

190 - QC21- Final Inspection - Work Order Release M138202

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	M7075T6S4.000X3.000	1	0	0	0

Part Specifications

Specifications could not be found.

5032563

Plex 11/14/17 6:49 AM dart.boucher.sylvie

4h25



Dart Aerospace Ltd.

1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



LH Wiper Deflector

PART NO: 646.3410

Original Serial #: S032566

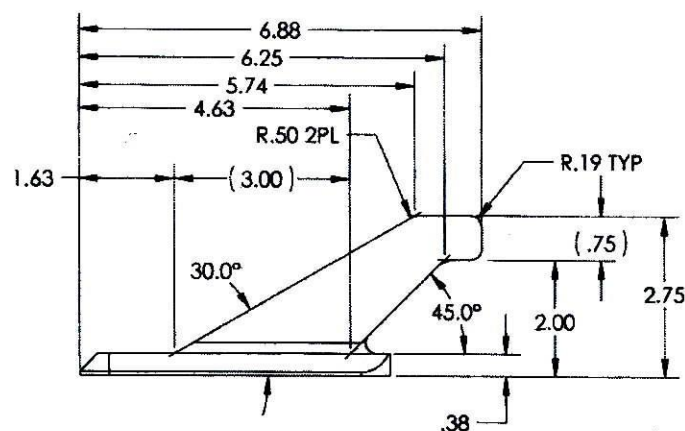
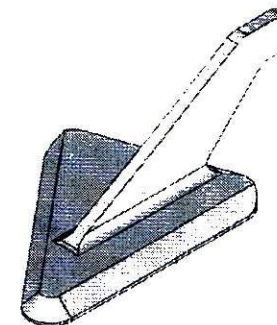
Revision:

Operation: Start up Operation 01/16/18

Change No:

Job No: 168233

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



646.3410 SHOWN
646.3411 OPPOSITE

1. MATERIAL: ALUMINUM 7075-T651 AMS-QQ-A-250/12
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;
CARDINAL 4860-50 PRETREATMENT PRIMER
PRIME IAW MIL-P-23377J TYPE I CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 168233

[illegible]

DAS
30
9-89

NOV 16 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038842

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalonde, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038842
PO Date: 1/22/18
Due Date: 2/2/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Baker, Diane
dbaker@dartaero.com

Via: Ground
Pynt Terms: Net 30
Freight Terms:
Special Comments:

E-MAILED
JAN 30 2018

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	170696	D5069-1-Rework	Hardpoint Adapter ISSUE P/O: _____ TO ATG ANODIZE BLACK AS PER DWG D5069 REV. B	Firmed	2/2/18	4 pcs	0 pcs	4 pcs	\$9.39/pcs	\$37.56
Line Item Note: RUSH RUSH !!!!! See other PO										
2	170700	D5553-1-Rework	Bracket ISSUE P/O: _____ TO ATG ANODIZE BLACK AS PER DWG D5553 REV. A	Firmed	2/2/18	4 pcs	0 pcs	4 pcs	\$9.39/pcs	\$37.56
Line Item Note: RUSH RUSH !!!										
3	168270	646.9812	Lower Cutter Deflector Issue P/O to ATG : Hard Anodize, Color Black and Prime as Per Dwg 646.9800 Rev. A	Firmed	2/2/18	6 pcs	0 pcs	6 pcs	\$20.64/pcs	\$123.84
6x AT 18/02/07										
4	168234	646.3411	RH Wiper Deflector Issue P/O to ATG : 1- Black Anodize as per Dwg 646.3400 2- PRIME AS PER DWG, SEE NOTE #2 Certification of Comformity is required	Firmed	2/2/18	6 pcs	0 pcs	6 pcs	\$13.14/pcs	\$78.84
6x AT 18/02/07										
5	168233	646.3410	LH Wiper Deflector Issue P/O to ATG : 1- Hard Anodize, Color Black and Prime as per	Firmed	2/2/18	2 pcs	0 pcs	2 pcs	\$13.14/pcs	\$26.28
2x AT 18/02/07										



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PURCHASE ORDER PO038842

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	170243	RB877528-4-3	Dwg 646.3400 Handle Issue P/O to ATG: ANODIZE COLOR BLACK, AS PER DWG RB877528-4-3 REV. 3	Firmed	2/2/18	4 pcs	0 pcs	4 pcs	\$7.24/pcs	\$28.96
7	170103	RB T102103-5	Retainer -Issue P/O to ATG: ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1 WATER SEAL	Firmed	2/2/18	20 pcs	0 pcs	20 pcs	\$7.24/pcs	\$144.80
8	170304	D2348 <i>see other PO</i>	Wearplate (Key Way) Issue P/O: Black Anodize per Dwg D2348 Rev. C	Firmed	2/2/18	20 pcs	0 pcs	20 pcs	\$3.39/pcs	\$67.80
9	170385	RBD29905-15	Center Plate -Issue P/O to ATG : PO -ANODIZE COLOR RED, PER IAW MIL-A- 8625 TYPE-2 CLASS-2, Water sealant	Firmed	2/2/18	12 pcs	0 pcs	12 pcs	\$10.78/pcs	\$129.36
10	168296	647.1816	Support LH ISSUE P/O: HARD ANODIZE, COLOR BLACK AND PRIME AS PER DWG 647.1800 REV. A	Firmed	2/2/18	4 pcs	0 pcs	4 pcs	\$14.14/pcs	\$56.56
11	165054	RBT400228M-3	Cylinder -Issue P/O to ATG: PO -ANODIZE COLOR RED, PER IAW MIL-A- 8625 TYPE-2 CLASS-2 AS PER DWG RBT400228M-3 REV. 1	Firmed	2/2/18	2 pcs	0 pcs	2 pcs	\$10.78/pcs	\$21.56
12	169805	RBW6505G00831- 3G-25	Mount Plate -Issue P/O to ATG: -ANODIZE COLOR CLEAR, PER IAW MIL- A-8625F TYPE 2 CLASS 1, Water sealant AS PER DWG RBW6505G00831-3G- 25 REV. 2	Firmed	2/2/18	2 pcs	0 pcs	2 pcs	\$7.24/pcs	\$14.48
13	169323	RBT400228M-1		Firmed	2/2/18	4 pcs	0 pcs	4 pcs	\$10.78/pcs	\$43.12



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914571

Date: 05-Feb-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms	Ship Via
	OUR TRUCK
Quantity	Description
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.
3 ea	Part: 647.1816 Rev: A Support LH Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22413 PO: PO038842 Line: 10
6 ea	Part: 646.3411 Rev: NC RH Wiper Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22407 PO: PO038842 Line: 4
2 ea	Part: 646.3410 Rev: LH Wiper Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22408 PO: PO038842 Line: 5
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>5/2/18</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of Made in Canada.	



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914571

Date: 05-Feb-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms

Ship Via

OUR TRUCK

Quantity

Description

receipt.

Made in Canada.